

Application No. 09/061,441
Response dated December 15, 2003
Reply to Office Action of 08/13/2003

This listing of claims will replace all prior versions of the claims of this application:

Listing of Claims

Claims 1 – 17 (cancelled)

Claim 18 (previously presented): A communications transceiver, comprising:

a first antenna connected to a first input amplifier for amplifying signals received by said first antenna;

a second antenna connected to a second input amplifier for amplifying signals received by said second antenna;

an intermediate frequency stage connected to said second input amplifier; and

a selector disposed between said first input amplifier and said intermediate frequency stage and between said second antenna and said second input amplifier for selecting operation of the communications transceiver between said first and second antennas,

wherein said first input amplifier includes a feedback loop for altering the operational characteristics of said first input amplifier in receiving mode.

Claim 19 (previously presented): A communications transceiver as claimed in claim 18, wherein said feedback loop includes a switch for selectively activating said feedback loop.

Claim 20 (previously presented): A communications transceiver as claimed in claim 18, wherein said feedback loop is a closed loop.

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Claim 21 (previously presented): A communications transceiver, comprising: a first antenna connected to a first receiving amplifier for amplifying signals received by said first antenna;

a second antenna connected to a second receiving amplifier for amplifying signals received by said second antenna;

an intermediate frequency stage connected to said second receiving amplifier; and

a selector disposed between said first receiving amplifier and said intermediate frequency stage and between said second antenna and said second receiving amplifier for selecting operation of the communications transceiver between said first and second antennas.

said first and second receiving amplifiers providing plural signal receiving paths of different signal processing characteristics in a receiver diversity architecture wherein for a given incoming radio signal, either of the respective signal receiving paths are respectively selectably operable.

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Claim 22 (previously presented): A communications transceiver as claimed in claim 21, wherein said first receiving amplifier includes a feedback loop for altering the operational characteristics of said first receiving amplifier.

Claim 23 (previously presented): A communications transceiver as claimed in claim 22, wherein said feedback loop includes a switch for selectively activating said feedback loop, to selectively change the signal processing characteristics for the incoming radio signal.

Claim 24. (previously presented): A communications transceiver as claimed in claim 22, wherein said feedback loop is a closed loop.

Claims 25 – 30 (cancelled).

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Claim 31 (new): A communications transceiver, comprising:

a first antenna and a second antenna

for selective operation in

receiving mode;

an input amplifier having two respective active operating conditions for amplifying

signals received by said first

antenna when selected for

operation in respective first active receiving modes;

an intermediate frequency stage

for selective connection with the

first antenna and the input amplifier in the first active

receiving modes, and for

selective connection to the

second antenna in a second active

receiving mode;

a selector system for selecting

between the first active receiving

modes and the second active

receiving mode;

wherein said input amplifier includes a feedback loop which is selectively closed in one of the first active receiving modes, and is selectively open in another of the first active receiving modes, such that the receiving path from the first antenna to the intermediate frequency stage in the respective first active receiving modes selectively has two respective different signal processing characteristics for a given incoming radio signal at the first antenna, the input amplifier in addition to having two active operating conditions providing two different signal processing characteristics of said receiving path from the first antenna to the intermediate frequency stage, having a deactivated condition when said selector system selects the second active receiving mode.

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Claim 32 (new): A communications transceiver as claimed in claim 31, wherein the signal receiving path from the first antenna to the intermediate frequency stage in the first receiving mode has a different signal processing characteristic than the signal receiving path from the second antenna to the intermediate frequency stage in the second receiving mode, for the case where the feedback loop is selectively closed, and for the case where the feedback loop is selectively open.

Claim 33 (new): A communications transceiver, comprising:

a first antenna and a second antenna

for selective operation in
receiving mode;

an intermediate frequency stage

for selective connection with the

first antenna in a first

receiving mode, to

activate a first signal

receiving path, and for

selective connection to the

second antenna in a second

receiving mode; to activate a

second signal receiving

path;

wherein the signal receiving path from the first antenna to the intermediate frequency stage when activated in the first receiving mode has a different signal processing characteristic than the signal receiving path from the second antenna to the intermediate frequency stage when activated in the second receiving mode.

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Claim 34 (new): A communications transceiver as claimed in claim 33, wherein the first signal receiving path when activated includes an amplifier which provides a different signal processing characteristic than the second signal receiving path when activated, which lacks a corresponding amplifier.

Claim 35 (new): In a communications system, diversity architecture receiving circuitry having first and second signal receiving paths, wherein for a given incoming radio signal, the first and second receiving paths are respectively selectable to provide respective different signal processing characteristics for the given incoming radio signal.

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Claim 36 (new): In a communications system according to claim 35, the first signal receiving path comprising an amplifier for the received radio signal with a feedback loop for providing a signal receiving path with different amplifier characteristics than the second signal receiving path.

Claim 37 (new): A communications system as claimed in claim 36, wherein said feedback loop includes a switch for selectively activating said feedback loop.

Claim 38 (new): A communications system as claimed in claim 36, wherein said feedback loop is a closed loop.

Claim 39 (new): A communication system as claimed in claim 35, with a common intermediate frequency stage shared by the first and second signal receiving paths.

Claim 40 (new): A communication system as claimed in claim 39, with first and second antennas for supplying a given incoming radio signal to the first and second signal receiving paths, respectively.